Memo

Work Order ID 54121

November 30, 2009 11:42:48 AM

Quality Control



Page 1

Accept D2580-1 Setup Start Item ID: **Revision ID:** D Stop 205 Skidtube bent detail Item Name: Start Oty: 2.00 **Cust Item ID: Start Date:** 01/12/2009 Required Date: 03/12/2009 Req'd Qty: 2.00 **Customer:** Reference: Run Start Process Plan: Date: Approvals: Stop SPC (Y/N): Date: Date: QC: ş . Plan -Reject Reject Insp. Sequence ID/ Operation Set Up/ Draw Draw Accept Code Work Center ID Number Rev. Qty Qty Number Stamp Description **Run Hours** Draw Nbr Revision Nbr Rev D D2580 0.00 100 W10 9.12.00 0.00 HandFinish Memo 1- Inspect mat'l D2500-1-190 for damage. Hand Finishing 2- Chemical Conversion Coat as per QSI 005 4.1 QC3- Inspect Part Finish 0.00 101 M9/12/2

0.00

W/O:			WO	RK ORDER CHANG	GES				
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes	No DQA	:	_ Date:	· · · · · · · · · · · · · · · · · · ·
		esolution:							
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCF	R) .			
DATE	STEP	Description of NC			tion B	Verifica	ation	Approval	Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sectio		Chief Eng	QC Inspector
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NOTE: Date & initial all entries

Work Order	ID	54121
November 30, 2009	11:4	12:48 AM



Page 2

Required Date: 03/12/2009

Item ID:

D2580-1

D

Revision ID: Item Name:

205 Skidtube bent detail

Start Date:

01/12/2009

Start Qty: 2.00 Req'd Qty: 2.00

Accept

Cust Item ID:

Customer:

Reference:

Approvals:

_____ Date:

Process Plan: _____ Date: ____

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Setup Start

Stop



Sequence ID/ **Work Center ID** Operation Description Set Up/ **Run Hours** Draw Number Draw Rev.

Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

110

Skidtubes Skidtubes

Memo

0.00

0.00

1-Drill pilot holes using drill jig DT 8149 (Do not use cutting fluid)

2-Open holes to 0.500" as per Dwg D2580 without cutting fluid

3-Deburr and blow out all chips from inside of tube

4-Bond web in place per QSI 015.

A/R Sikaflex-291 batch: 1/2 5/ Sikaflex expire date:

Start time: bond for 12hrs

2,00

130

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

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W/O:			WC	ORK ORDER CHANG	ES	-				
DATE	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA	ı:	Date:		
		esolution:	Disposition	1:	_ QA: N/C Cld	osed:		Date:		
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR)				
DATE	STEP	Description of NC	Description of NC Corrective Act			Verifica	rification	Approval	Approval	
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	gn & Section C	Chief Eng	QC Inspector		
										
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NOTE: Date & initial all entries

Work Order ID 54121

November 30, 2009 11:42:48 AM

D

Required Date: 03/12/2009



Page 3

Item ID:

D2580-1

Accept

Setup Start

Stop

Revision ID: Item Name:

205 Skidtube bent detail

Start Date:

01/12/2009

Start Qty: 2.00 Req'd Qty: 2.00

Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

0.00

SPC (Y/N):

Date:

Date:

Start

Stop

Run

Sequence ID/

Work Center ID

Operation **Description**

Identify as per dwg & Stock Location: 46

QC21- Final Inspection - Work Order Release

Set Up/ Run Hours Draw Number

Draw Plan Code Rev.

Reject Accept Qty Qty

Reject Number

Insp. Stamp

140

Packaging

Memo

0.00

Packaging

0.00

150

QC

Quality Control

Memo

0.00

M 15912-9

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W/O:	- ,,,,,,,,		V	VORK ORDER CHANG	GES					
DATE	STEP	PROC	PROCEDURE CHANGE By					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	• •	PAR #:	_ Fault Ca	itegory:	NCF	R: Yes N	lo DQA	:	Date: _	
	R	esolution:	_ Disposit	tion:	QA:	N/C Clo	sed:		Date: _	
NCR:		We	ORK OR	DER NON-CONFORM	ANCE	(NCR))			
DATE	STEP	Description of NC			tion B		Verific	ation	Approval	Approval
	J.E.	Section A	Initial Chief Eng			Sign & Date		n C	Chief Eng	QC Inspector
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Picklist Print

November 30, 2009 11:42:54 AM

Work Order ID: 54121

Parent Item:

D2580-1RevD

Parent Item Name: 205 Skidtube bent detail

Comments:



Start Date: 01/12/2009

Required Date: 03/12/2009

Page 1

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
Item Name	Item ID	Purch	Item	Location	Location	Seq ID	Measure	Hand	Qty To Pick	Issued	Issued	
D2500-1-190RevG		Manufactured	No				Each	114.0000	2.0000			

Ext'n -'I' Beam Tube 4"

Warehouse	Loc Oty	Loc Code
Location		
Main Warehouse	•	
LG	111	
50166	10	
52319	101	
Main Warehouse		j
ST	3	1
46468	3	1

AUM 9-12 02

D2596RevD

Manufactured

110

5.0000 Each

2.0000



Web, 205 Skidtube

Warehouse Loc Qty Loc Code Location Main Warehouse LG 5 51528 53263

W/O:			WO	RK ORDER CHAN	GES				
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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		+ 1				;			
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Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes	No DQA	\:	_ Date: _	·
Resolution:		esolution:	Disposition	QA: N/C C	QA: N/C Closed: Date:				
NCR:			WORK ORDE	R NON-CONFORM	IANCE (NC	7)			
DATE	STEP	Description of NC			ction B	Verific	ation	Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date	Section		Chief Eng	QC Inspector
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NOTE: Date & initial all entries



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	DESIG	H	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
į	CHEC	KED.	APPROVED	DRAWING NO. REV. D
		W	 	D2580 SHEET 1 OF 3
	DATE			TITLE SCALE
	07.0	2.27		205 SKIDTUBE ASSEMBLY NTS
	Α		96.09.16	NEW ISSUE
	В	. ,	96.12.02	AS MANUFACTURED
	С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
	D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183

RELEASED

QTY -041	QTY -045	Part Number	Description	
—x—		D2580-041	SKIDTUBE ASSEMBLY	7
	X	D2580-045	SKIDTUBE ASSEMBLY	
1	1	D2500-1-190	EXTRUSION	
1	1	D2576-3	STEP	
20	24	D2579	CROSS BOLT SPACER	
16	16	D2594-1	PLUG	
16	16	D2594-3	O-RING	
· 1	1	D2596	205 WEB	- -
1	1	D2855	AFT CAP] ·
1	1	D3564-5	WEARSHOE	7
1	1	D3564-9	WEARSHOE	7
.1	1	D3564-11	WEARSHOE	7.
1	1	D3564-13	WEARSHOE	
2	2 .	D3566-1	GASKET	
1 .	1	D3566-5	GASKET	7
1	1	D3566-13	GASKET	
50	- 50	ALS7-1032-130	INSERT	1 .
		or AKS7-1032-130		ŀ
		or AKS4-1032-130	,	
		or AELS-1032-130		_}
50	50	AN3C4A	BOLT	
2	2	AN3-5A	BOLT	
. 50	50	AN960C10L	WASHER]
2	2	AN960JD10L	WASHER	UNC

GENERAL NOTES:

1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

2) ALL DIMENSIONS ARE IN INCHES

3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.

4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.

- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

SEE NOTES ON

PAGE 2 FOR D2580-041 AND

PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

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